

IN THE CLAIMS:

Please amend the claims as follows:

1. (Five-times Amended) A method for compressing video data in a computer system comprising:
receiving ~~a stream of data from~~ a current video frame at a core logic chip in the computer system from a video source originating the video frame, the computer system including the a core logic chip for coupling a processor to a system memory and for coupling the processor and the system memory to a system bus;
computing at the core logic chip a difference frame from the current video frame and a previous video frame as the current video frame streams into the core logic chip ~~computer system~~, ~~wherein computing~~ the difference frame including ~~includes~~ computing the difference frame in the core logic chip within the computer system, wherein the core logic chip is a north bridge chip;
storing the difference frame in the system memory in the computer system; and
the processor ~~host~~ retrieving the difference frame directly from the system memory via the core logic chip to complete compression of the video data.
2. (Previously Amended) The method of claim 1, including storing the current video frame in the system memory in the computer system.
3. (Previously Amended) The method of claim 2, wherein the current video frame is written over a previous video frame in the system memory.
4. (Unchanged) The method of claim 1, wherein computing the difference frame includes computing an exclusive-OR between the current video frame and the previous video frame.
5. (Unchanged) The method of claim 1, wherein computing the difference frame

includes computing a difference between a block of data from the current video frame and a block of data from the previous video frame.

6. (Previously Amended) The method of claim 1, wherein storing the difference frame in memory includes storing the difference frame in the system memory using block transfers.

7. (Unchanged) The method of claim 1, including compressing the video data using the difference frame to produce compressed video data.

8. (Unchanged) The method of claim 1, including performing a color space conversion on the video data.

9. (Unchanged) The method of claim 1, including using the video data in compressed form in a video teleconferencing system.

10. (Previously Cancelled).

11. (Previously Cancelled).

12. (Unchanged) The method of claim 1, wherein computing the difference frame includes computing the difference frame in circuitry outside of a central processing unit in the computer system.

13. (Five-times Amended) A method for compressing video data in a computer system, comprising:

receiving ~~a stream of data from~~ a current video frame at a core logic chip in the computer system from a video source originating the video frame, the computer system including the a core logic chip for coupling a processor to a system memory and for coupling the processor and the system memory to a system bus;

computing at the core logic chip a difference frame from the current video frame and a previous video frame as the current video frame streams into the core logic chip ~~computer system~~, ~~wherein computing~~ the difference frame including ~~includes~~ computing an exclusive-OR between the current video frame and the previous video frame, and wherein computing the difference frame includes computing the difference frame in the core logic chip within the computer system, wherein the core logic chip is a north bridge chip;

storing the difference frame in the system memory in the computer system;

storing the current video frame in the system memory in the computer system;

the processor ~~host~~ retrieving the difference frame directly from the system memory; and

compressing the video data using the difference frame to produce compressed video data.

14. (Previously Amended) The method of claim 13, wherein the current video frame is written over a previous video frame in the system memory.

15. (Unchanged) The method of claim 13, wherein computing the difference frame includes computing a difference between a block of data from the current video frame and a block of data from the previous video frame.

16. (Previously Amended) The method of claim 13, wherein storing the difference frame in system memory includes storing the difference frame in the system memory using block transfers.

17. (Unchanged) The method of claim 13, including using the compressed data in a video teleconferencing system.

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18. (Unchanged) The method of claim 13, including performing a color space conversion on the video data.

19. (Previously Amended) The method of claim 13, including storing instructions and data for the computer system in the system memory.

20. (Previously Cancelled).
